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FIG. 4

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GGTGCTGGAGTACCTCATGGGCGGTGCCTACCGCTGCAACTACACTCGGAAAAGCTTCCGGACTCT CTACAACAACTTGTTTGGCCCTAAGAGGGTAGAGCTCAGCAGACACACAGAGTGTCCTGTGCCTCCC AGAGTAACATGTGGTTCCTTGATGTGCTTCCCCAAAAGCCCACCTGTGCAGAATG (SEQ ID NO: 1)

FIG. 2

38(4 4	500	56	10	12	74	80 16	96 18	92
AAG K	MC	ACC T	GAT D	202	CAG	ATC	CIC	GTG V	GAA
	AGC S			GCT A:			CAG		X AA
ATG M	CAA	OCC P	GTG V	ATT	GTC V	CAC H	AGA R	CCT P	CIC
CIC		GCT A	CAT H	S C C	AGA R	ACT.	CGÀ R	GTA V	CTG GAG TAT CTC
CAC	၁၅ ၁၅	AAG K	AGC S	ATA I	ACA T	CAC H	CTT	GGT G	GAG
CIC	C C	ATC I	CIC V	GCT A	GTA V	TCC	AAG K	CAG	CTG L
CTG L	CAC H	د و	GTC V	16T C	GAT D	AAT N	GTG V	ပ္ပံ	AAC GTG GTT TCT ATC GTC N V V S I V
TCC S	GTG V	GGT G	GGT	دىر 1	AAA X	N	GAG	CTG	ATC I
GAT D	TCT	AAA K	ACT T	ည ဗ	C G	CIC	GCT ▶	7GG R	TCT S
CCA	ata I	999 9	AGC S	ည္သ	ATT I	0110 ^	G G	ACA T	GFT V
AAG K	175 L	TTT	GTG V	AGA R	دين 1	icr	TAT Y	Z Z	GTG V
ACC T	CTC L	GTG V	S G	TCC S	GAC D	CIC	AAG K	A'IC I	AAC
GAC	AAG	CAG O	9 9 9		GAA E	AAG K	၁၁၁	AAG	CCT P
TAC Y		AAG K	ACC	TCC	AAG K	AGC	CTG	CAG	GGT CCT
TCC	CTC L	CTG L	TTC	TCC	AAC N	CTG	ACC T	CIG	GI'A GAA GGT V E G
GTC V	GAG	AAA K	ATC I	CAC	GAG E	CCT	ည ဗ	TCC	gaa e
CGA R	CTG	TCC	₹ ¥	GAC		AAC	AAC N	ATC I	GI'A V
ATC	CAG Q	CAG	GCG A	AAA K	ATG M	TCC S	GAC	CAC	GTG V
TAC	71GG ▼	ATG M	9 9	TTG	ပ္ပ	ATG M	ट्ट •	X X	CTA GIG
ATC M	GAC D	GAG	ACG T	000 «	7 20 30	ACC	TTG	GAA	ပ္ပ ဗ
	NG TAC ATC CGA GTC TCC TAC GAC ACC AAG CCA GAT TCC CTG CTC CAC CTC ATG GTG AAG Y I R V S Y D T K P D S L L H L M V K	TAC ATC CGA GTC TCC TAC GAC ACC AAG CCA GAT TCC CTG CTC CAC CTC ATG GTG AAG Y I R V S Y D T R P D S L L H L H V K K K W Q L E L D K L L I S V H G G G C C C C C C C C C C C C C C C C	TAC ATC CGA GTC TCC TAC GAC AAG CCA GAT TCC CTG CTC CAC CTC ATG GTG AAG Y I R V S Y D TCG CAG CTC CAC CTC ATG GTG AAG TCG CAC CTC CAC CTC ATG CTC TTC W Q L E L D H G G G C C C C C C C C C C C C C C C C	TAC ATC CGA GTC TCC TAC GAC AAG CCA GAT TCC CTG CTC CAC CTC ATG GTG AAG Y I R V S Y D T K P D S L L H L M V K TCG CAG CTC CAG AAG CTC TTG ATA TCT GTG CAC GGA GGC CTC CAA AGC TTC W Q L E L P K L L I S V H G G L Q S F ATG CAG TCC AAA CTG AAG CAG GTG TTT GGG AAA GGT CTG ATC AAG GCT GCC ATG ACC M Q S K L K Q V F G K G L I K A A A M T GGG GCG TCG TCG CAG GGT GTG ACC GGT GTG GTC GTC GTC GTC GTC GTC GTG GTG	THE ATC CGA GTC TCC TAC GAC ACC ANG CCA GAT TCC CTG CTC CTC ATG GTG AAG TTG CAG CTG GAG CTC CCG AAG CTC TTG ATA TCT GTG CAC GGA GGC CTC CAA AGC TTC W Q L E L P K L L I S V H G G L Q S F ATG CAG TCC AAA CTG AAG CTC TTT GGG AAA GGT CTG ATC AAG GCT GCA AGC TTC M Q S K L K Q V F G K G L I K A A A M T TTG AAA GAC CAC TCC AAG TCC AAG GCT GTG ACC GTC CTC CTC CTC CTC ATG ACC TTG AAA GAC CAC TCC AAG TCC AAG TCC AGA GGC CTC TGT GTC ATG GCT CTC CTC ATG ACC TTG AAA GAC CAC TCC AAG TCC AAG TCC AGA GGC CTC TGT GCT ATA GGA ATT GCT CCC TTG AAA GAC ACC TCC AAG TCC AAG TCC AGA GGC CTC TGT GCT ATA GGA ATT GCT CCC TTG AAA GAC ACC TCC AAG TCC AAG TCC AGA GGC CTC TGT GCT ATA GGA ATT GCT CCC	TAC ATC CTG CTG CTC CTG CTG <td>TACK ATC CGA GTC TCC TAC GAC ACC AAG CCA GAT TCC CTG CTC CTC ATG GTG AAG TTG CAG CTG GAG CTC CCG AAG CTC TTG ATA TCT GTG CAG GGC CTC CAA AGC TTC M Q L E L P K L L I S V H G G L C C CAA AGC TTC ATG CAG TCC AAA CTG AAG CTC TTG ATA TCT GTG CAC GGA CGC CTC CAA AGC TTC ATG CAG TCC AAA CTG AAG CTC TTG ATA TCT GTG CTC CAG CCC CTC CAA AGC TTC ATG CAG TCC AAA CTG AAG CTC TTG ATA CTT GGG AAA CGT CTG ATC AAG CTC CAT GTG CAC ATG ATG CAG TCC TTC ACC GGG CGT TTT GGG AAA CGT CTC TTG AAG CTC TTG AAG CTC TTG AAG TTC TTC ACC AAG TTC TTC ACC CAT GTG GGG TTT GAG ATT GTG CTC TTG AAG TTC TTC ACC AAG TTC TTC ACC CAT GTG GTG TTG TTG AAG TTC TTC ACC ATG TTC ACC ACC ATG TTC ACC ATG TTC ACC ACC ACC ATG TTC ACC ACC ACC ACC ACC ACC ACC ACC ACC</td> <td>THE ATE CAR CTC TAC AAC AAC AAC CAA GTT TCC CTG CTC CTC CTC TAC GTG AAC TOG CAG CTC CAG AAC CTC TTG ATA TCT GTG CAC GAG CGC CTC CAA ACC TTC M Q L E L P K L L L I S V H G C C C CA AAC TTC MATE Q S K L K Q V F G K K G L I K A A A A A A TTG AAA GAC CAC TCC CAG GAG CTC TTG AAC GAC GGG CAC CTC CAG CAC CAC AAC M J I F T G G G CT GTG AAC AAC GAG CTC TTG AAC GAC CAC CAC AAC CAC CAC AAC CAC CA</td> <td>THE ATC CAR GIVE THE THE ALL R R P D S L L L H L M W R THE R V S Y D T T K R P D S L L L H L M W R THE R V S Y D T T K R P D S L L L H L M W R THE R V S Y D T T K R P D S L L L H L M W R THE R V S Y D T T K R P D S L L L H L M W R THE R V S X M R C T C CG AAG CTC TTG ATA TCT GTG CAG GGC CTC CAA AGC TTC THE R D L R M R C GG GTG TTT GGG AAA GGT GTG ATC AAG GCT CTC CAA A CTG THE R D M I F T G G V S T G C T G T G T G T G T G T G T G T G T</td>	TACK ATC CGA GTC TCC TAC GAC ACC AAG CCA GAT TCC CTG CTC CTC ATG GTG AAG TTG CAG CTG GAG CTC CCG AAG CTC TTG ATA TCT GTG CAG GGC CTC CAA AGC TTC M Q L E L P K L L I S V H G G L C C CAA AGC TTC ATG CAG TCC AAA CTG AAG CTC TTG ATA TCT GTG CAC GGA CGC CTC CAA AGC TTC ATG CAG TCC AAA CTG AAG CTC TTG ATA TCT GTG CTC CAG CCC CTC CAA AGC TTC ATG CAG TCC AAA CTG AAG CTC TTG ATA CTT GGG AAA CGT CTG ATC AAG CTC CAT GTG CAC ATG ATG CAG TCC TTC ACC GGG CGT TTT GGG AAA CGT CTC TTG AAG CTC TTG AAG CTC TTG AAG TTC TTC ACC AAG TTC TTC ACC CAT GTG GGG TTT GAG ATT GTG CTC TTG AAG TTC TTC ACC AAG TTC TTC ACC CAT GTG GTG TTG TTG AAG TTC TTC ACC ATG TTC ACC ACC ATG TTC ACC ATG TTC ACC ACC ACC ATG TTC ACC ACC ACC ACC ACC ACC ACC ACC ACC	THE ATE CAR CTC TAC AAC AAC AAC CAA GTT TCC CTG CTC CTC CTC TAC GTG AAC TOG CAG CTC CAG AAC CTC TTG ATA TCT GTG CAC GAG CGC CTC CAA ACC TTC M Q L E L P K L L L I S V H G C C C CA AAC TTC MATE Q S K L K Q V F G K K G L I K A A A A A A TTG AAA GAC CAC TCC CAG GAG CTC TTG AAC GAC GGG CAC CTC CAG CAC CAC AAC M J I F T G G G CT GTG AAC AAC GAG CTC TTG AAC GAC CAC CAC AAC CAC CAC AAC CAC CA	THE ATC CAR GIVE THE THE ALL R R P D S L L L H L M W R THE R V S Y D T T K R P D S L L L H L M W R THE R V S Y D T T K R P D S L L L H L M W R THE R V S Y D T T K R P D S L L L H L M W R THE R V S Y D T T K R P D S L L L H L M W R THE R V S X M R C T C CG AAG CTC TTG ATA TCT GTG CAG GGC CTC CAA AGC TTC THE R D L R M R C GG GTG TTT GGG AAA GGT GTG ATC AAG GCT CTC CAA A CTG THE R D M I F T G G V S T G C T G T G T G T G T G T G T G T G T

FIG. 3A

980 220	1040	1100	1160 280	1220 300	1280 320	1340	1400 360	1460 380
TCC	CTT	GCA A	GAG	TCA	CAG	ACC	G G	AAG K
TTG	CAG Q	TTTF F	TCC	5 5 ≪	AGC S	GAC	AAA K	000 200
ATT	GAC D	CTG	AG AAA GAA CTC GTC ACT GTG TTT CGG ATG GGT TCC GA K E L V T V F R M G S E	AAC N	CGA R	GTG V	AGA GGA I	S CCC
GAC D	000 R	CAG	ATG M	ACC T	SCG A	CCT	AGA R	GAC
TCT S	CTG L	TAT Y	CGG R	G G	ATA I	CCT P	999	ACG T
) V	TCC S	TCG	TYTY	AAA K	GAC	≥	AAG K	GAG GAA GAG ACG E E E T
CGT	GAG E	CAG	GTG V	CIC L	GTC V	CTG L	ACC ACC	E GAA
g G	ATA AAC I N	TCC	ACT T	TTG	990 ₩	AGC S	ACC T	GAG
AGT S	ATA I	AAG K	GTC V	000 8	AAC N	CGA C	CCC CC	GTG V
ည္သည္	GGA GTC	AGC S	CTC L	ACT T	11GG W	CTG	ACA T	E GAN
GAT	GGA G	TAC Y	GAA	TTA L	GCT A	CCA P	d	GAG
25°	99 9	N	X AA	ATT I	CTG	occ S	CCA	¥ ¥
GTT V	GAA	بنا ڪ	4 ×	O K	SCC P	TGG W	< ×	GTG >
GTG V	GAC	ACA T		ATG M	TTG		AAG K	¥ ¥
GTG V	TGC C	A A	ATG M	GAG E	AGC	CCA	GAA	ပ္ပ ဗ
CCT	TAC Y	CAG	Jac C	GTC V	CTG	ပ္ပ ၁	AAG	A A
GTC V	AAA X	ATT I	GAG E	GAT D	CAG	7777 F	GAG E	AAG
CCT	CAC H	ACC	ATG M	CAA	GAT D	GTC V	5 <	AAG K
CCT	CCA A	GTT V	ATČ I	CAG	CCA	TTC	OCC V	ပ္ပ ဗ
GAC	TTC	CTA	ATT	CGT				AAA GGC AAG

FIG. 3B

1520 400	1580 420	1640 440	1700 460	1760 480	1820 500	1880 520	1940 540	2018	2098 2178 2258 2338 2418 2498 2578 2578 2658
7	-	. 🕶	7	1	1	7		ä	
CTA L	CIC	CAT H	ATT I	200 R	AGA R	AAG K	CCA CCT	CTG CCC TGA CACCCAGTGCAGGCCTCCTAGCTTTCACATGCAGCCATTCACATTGCCCTCTCAAGACTGGGCCAGGC	AGIGCAACCTGTCAAGCATGTCTGTCCTCCCTCCTTCCTACAATAGCCCCCCCTCTGGGCCCCATGCCTCTTGCTCTTCTCTAAAATTGGAAAAGGAAAAGGAAAAGGAAAAGGAAAAGGAAAAGGAAAA
GTC V	CAT TTC H F	CIT	CIC	ACT T	AGC S	CAA O	CCA P	D D D D D	TGCD TITITE TGCC CATT AGIT TCTG TGGCA TGGCA
CIT	CAT	ACC T	AGC S	TAC Y	GAG CTC E L	CCC	ACC T	SACTY (SE)	CCICTC CATCTI CAGCTC GCCACA CCACAC GACTTC TATTIGA TATTIGA GTGCC
GCT A	CAG Q	AAC N	ATC I	AAC		CTT	ATC	ICAA(CATG NAAAG NACCT CACTY NAACTY NAAAG SCTCC
GAT GCT D A	ATG M	CCA P	CAC	C	GľA V	GTG V	GAC	CCIC	SCCC NGCA NTCC CCTX CCTX NTCC NTCC NGCA NGCA INAA
CIG L	AAC N	CCA	TAC Y	000 ₩	AGG R	GAT D	CAA ACT Q T	A'I'CGC	CTGG NACTO NACTO CTCAC NGTGI NAGTI
A TC	GTG V	ပ္ပ ၁	GAT D	TAC Y	AAG K	CTT	C CAA	CAC	CCCT NAGGI NCGGI NGCTI NCTO NAGTI NAGGI
OCC A	ဗ္ဗဗ္ဗ	CTG	CCA CCT O	GGT GCC	CCT	TTC F·	CTG TCC	CAT	CCCC AGGCI PACAN CCAAN CCTGI CTGI CTGI TAATI
CAA	AAC	AGA R	CCA P	GGT G	ပ္သတ္မ	TGG W	CTG L	3CAG	NTAGA NCCAN NCCAN NCCAN NCCAN NCCAN NCCAN NCCAN NCCAN
GAG E	GAA	ACC T	CIT L	ပ္သမ	1717 F	ATG M	CAC H	ACATK	FACA STCTC SATCE SCITE SCITE SCITE SCITE SCITE SCITE STCTC STCT STCT STCTC STCT STCT STCTC STCTC STCTC STCTC STCTC STCTC STCTC STCTC STCTC STCTC STCTC STCT
AAT GCC CTG GAG CAA GCC N A L E Q A	ATT I	AAC N	AAC N	ATG M	AAC 177G '	AAC N	ICA CCT	riric.	FICCI FOTIC CCAC CCTCC SAGAI VAGCI VAGCI
OCC V	CTG L	TAC Y	AGC S	CIC	AAC N	AGT S	1CA S	PAGCI	TICCI TICCI VIANC VIGIC VICCI VICI VICCI V
AAT N	د در	CTA	AAG K	TAC Y	AAC	CAG	TCT S	יוככיו	CCCC GGGG NCCCT NTAA YTTAC NCTC?
GTG V	AAG K	GAG	AAG K	GAG E	TAC	TCC S	AAC	33505	STCCI STCCI STTCI TCCA TCCA STTCI TCCTA TCCTA TCCTA
TCG W	GTA V	GAG	GFA V	دين 1	CTC L	200 ₽	GAA TGC	NGCAC	STCTK GGATK GGCTK GGCTA GGGTA GGGTA TCACK
AAC	TTT	CTG	GAT D	GTG V	ACT	TGT	GAA	CAG	CCATC CCCC TATC SITTA STTA SITTA SITTA SITTE
C IIC			CGG	CTG	8 ~		GCA A	CACC	CCAAC SGCCI SCCIC
CTT GAG CTG (gat cgg gtg gac D R V D	ACC ATC CCG AGG T I P R	CTG CTG GTG CGG L L V R	GAT ATA GGA D I G	AAA AGC TTC C K S F F	CAC ACA GTG TCC H T V S	CCC ACC TGT GCA P T C A	TGA	AGIGCAACCTGTCAAGCATGTCTGTCCTCCCTTCCTACAATAGCCCCCCCTCTGGGCCCCATGCCTCT AGCCCGTTCTCTCCCCCACTGTCTCTCGCGCCTCCTTTCCTACAAGCAAG
GAG E	200 R	ATC I	CIC	ATA I	AGC S	ACA T	ACC T	a	CCAAC CCTT AAGT CCTT TCCTT TCCTT TCCTT AGCAC CCAC
CIT	GAT	ACC T	CTG	GAT D	X X	CAC H))		AGTG AGCC ACAA CAAG TTTCT AGAA AGAA ATTT

FIG. 3C

AATCITIGGATAGAGAAAACCITITIGCAAACGGGAATGTATCITITGTAATTCCTAGCACGAAAGACTCTAACAGGTGTTG CTGTGGCCAGTTCACCAACCAGCATATCCCCCCTCTGCCAAGTGCAACACCCAGCAAAAATGAAGAGAAAAGCAAAACAG **ACTCATTATAGGGNTCGAGCGGCCGCCCGGGCAGGTTTGAGCTGTGCCCTCTCCATTCCACTGCTGTGGCAGGGTCAGA** GTGGAGACTCAGCCTGAGAAATGGTCTTGCAAGCACACCCAGAGCTACCCAACAGATTCCTATGGAGTTCTTGAATT CCAGGGTGGCGGATATTCCAATAAAGCC

20	40	60 180	80 2 40	100 300	120 360	140 420	160 480	180 540	200
	_		_						
K AAA	F	T	D GAT	P 22	Q CAG	I ATC	L CTG	V GTG	E G A A
V GTG	N AAC.	M ATG	၁ ၁	A GCT	$^{ m Y}$	F	L CTG	L CTC	o ¥
M ATG	C.A.C.	₽ GCT	V GTA	I ATT	V GTG	H CAC	R AGG	P	L CTG
CTC	1 CIC	A GCT	II CAC	C GGA	R AGA	T. ACC	R CGA	V GTG	Y T A C
H CAT	ာ ၅၅	K AAG	s AGC	I ATA	TACA	II CAC	L	ე ე	E GAA
CTC	ာ ဗဗ္	I ATC	I ATC	A GCT	∨ GTA	s TCC	K AAG	O CAG	rigg
rig Giro	H CAT	L	V GTT	င TGT	D GAT	N AAC	v GTG	ე ე	STC
S TCA	> CTC	ပ္	o GGT	V GTT	K AAG	N AAC	E GAG	L CTG	I ATC
D GAC	s TCT	K AAA	ACA	8 S	ი გვ	L CTC	ور (کر	R AGA	s Tcc
Ф Д	I ATA	ე ე	S	ပ္ ပ္တ	V GPT	V GTG	၁ ၁၅	T ACA	> STG
K AAG	L TTA	F TTT	v GTC	R AGA	L CTG	s TCT	Y TAT	N AAC	v GTG
T ACC	L. CTC	V GTC	o GGT	s TCC	D GAC	L. CTC	K AAG	I ATC	N AAC
DGAC	K AAG	$\overset{\circ}{A}$	ე ე	K AAG	E GAA	⊼ AA G	ပ ညွှ	K AAG	P CCT
Y TAT	д ССС	K AAA	T. ACC	s TCC	K AAG	s AGT	L CTG	C.A.G.	ပ္ ပင္ဟ
S TCC	LCTC	L CTG	F	s TCC	N AAT	L. CTA	T ACC	LCTC	ი გ
v GTA	EGAA	K AAG	I ATC	H CAC	E GAG	P CCT	ව වූ	s TCC	E GAG
R CGT	L CTG	CCC	™ TGG	D GAC	or c	AA C	N AAT	I ATC	v GTG
I ATC	C.A.G	⊘ CAG	A GCC	AAA	I ATC	s TCC		C.A.C.	> 5 <u>F</u>
Y TAT	™ TGC	M ATG	9 9	L TTG	၁ ဗ္ဗ	M ATG	A GCT	K AAG	CTC
M ATG	D GAT	E GAG	T ACC	A တိုင်	ĭ TGG	T ACC	L CTG	E	o Gr

220 660	240 720	260 780	280 840	300 300	320	340 1 020	360 1080	380 1140	400
s TCC	L	A GCA	E GAG	s TCT	C.A.G	S AGC	K AAA	∞ GG	>
L CTG	્ CAG	F	S	√ G TA	SAGC	D GAC:	ු ලිල්	P	
IATC	E GAG	L CTG	ാ GGT	N AAC	R CGA	T ACC	R AGA	D GAC	Æ
DGAC	R AGG	₽ CAG	M ATG	T. ACA	G &	P دې	ට GGA	T ACT	Ω
s TGG	L	H CAT	R AGA	о ССА	I ATA	P CCC	G GGA	E GAA	IJ
₽	S TCC	s TCA	F	А А А	D GAC	A GCA	⊼ AA G	E GAA	Ξ
R CGT	E GAG	CAA	V GTG	L CTG	, v GTG	L CTG	ACC .	E GAG	Æ
o GGA	n AAT	GCA GCA	T ACT	L CTG	ස හි	s AGC	T ACC	v GTG	ø
s AGC	I ATA	к AA G	V GTC	A GCC	N AAC	G GGA	A GCC	E GAA	ធា
ပ္ ပွဲ	I ATA	n AAT	L CTC	T ACT	™ TGG	1 داک	M ATG	E GAG	ы
D GAT	ධ GGA	\mathbf{Y} \mathbf{TAT}	E GAA	L TTA	A GCT	P	P CCC	K AAA	⋖
c TGT	ပ္	N AA T	⊼ AAA	I ATT	اء گ	T ACG	CCA	v GTG	z
I ATT	E GAA	F	K AAG	₽ GG	GC A	W IGG	K AAG	K AAA	>
v GTG	E GAA	T. ACA	K AAG	M ATG	L TTG	H CAC	K AAG	ი გ	3
v GTG	ဂ TGT	K AAA	M ATG	E GAG	s AGC	P	E GAG	K AAA	Z
P	Y TAC	C. S.	ာ TGC	I ATC	7 CT	ე ე	K AA G	K AAG	ы
I ATC	K AAG	I ATT	E GAG	D GAC	C.A.C.	F	E GAG	K AAG	ı
မှ	H CAC							ဗ္ဗ	ធា
P CCT	& SSS	V GTT	I ATA	CAG				A A A	н
E GAG			I ATT			I	AAA	ე ე	×

FIG. 5B

1200	420 1 260	440 1320	460 1380	480 1 440	500 1 500	520 1 560	540 1 620	260 1 680	580 1740	600 1800	620 1860
											, ,
GTC	F	L. CTT	LCTC	T. ACT	L CTT	K AAG	$rac{Y}{ extsf{TAT}}$	F	K AAG	D GAT	H CAT
TTA	H	T. ACA	S AGC	ï TAC	A GCT	K AAA	∴ CAG	V GTG	Y TAC	L	к AA G
GCT	CAA	n AAC	I ATC	II AAC	K AAA	к ААА	F TTC	A GCA	L CTC	D GAC	Y T'AT'
GAT	H ATG	L' CCA	н САС	o J	P CCT	K AAA	≃ 55 55	H ATG	K AAG	Q CAG	ာ သူ
CTA	N AAC	г ССА	Y TAC	≃ ဘ	R AGG	AAA	S AGT	K AAA	ာ ၂ ရိုင	S	Q CAG
ATG	v GTG	ි GGT	D GAT	Y TAC	K AAG	K AAG	> CTG	Q CAG	₽ CC	I ATC	D GAC
ව්	Ω GGA	L CTG	P	À CCC	PCCA	ပ ်	A CC	۳ رو	V GTG	D GAC	L TTA
CAA	AAC	R AGA	P CCG	ე წჭ	റ ദ്ദേ	AAA	PCCT	K AAA	L CTG	D GAT	L TTA
GAG	E GAA	T ACA	L	ာ ဗွ	F	A GCT	D GAC	M ATG	A GCC	V GTG	E GAG
TTG	I ATT	AAC	N AAC	H ATG	L TTG	P CCA	D GAC	L CTG	K AAG	L CTG	L TTG
GCT	L CTG	Y TAT	S AGC	L	II AAC	P CCT	V GTG	V GTG	A GCC	D GAT	A GCT
AAT	L CTC	L. CTT	K AAG	Y TAC	N AAC	E	D GAT	A GCA	M ATG	S AGT	L CTT
GTG	K AAG	E GAG	K AAA	E GAG	Y TAC	D GAT	I ATT	™ TGG	S	E GAG	ي CAG
766	V GTG	E GAG	v GTG	L	L CTT	D GAT	D GAC	v GTG	E GAG	S	ာ ဗွ
AAC	F	L CTG	D GAT	v GTG	T. ACC	E GAA	I ATC	M ATG	E GAA	S TCC	F
CTG	D GAC	⊼ AGG	AGG	L	ස පු	M ATG	E GAG	L CTG	ე ეტე	E GAG	D GAC
CTG	orc orc	a CCG	v GTG	၁ ၁	F	G GA	E GAA	E GAG	R CGA	H CAC	AAA
AAG ATA GAG CTG	R CGT	I ATT	L CTG	I ATC	N AAC	L CTG	E GAG	H CAC	O. C.A.G	A SCC	S
ATA	D GAT	T. ACC	L CTG	D GAC	K AAA	L	K AAG	F	™ TGG	M ATG	N AAT
AAG	L	L CTG	H	I ATA	ж С G G	K AAA	K AAA	P CCC	CIC	A GCC	AAC

FIG. 5C

ndsobous nasynd

640 1920	0 86 T	680 2 04 0	700 2 100	720 2 160	740 2 220	760 2 280	780 2 340	800 2 400	820 2460
T ACC	CAG	K AAG	D GAT	N AAT	к AAA	K AAG.	L CTG	S AGC	⊼ AAA
S TCG	S AGC	. L. CTG	Y TAT	E GAA	K AAA	V GTC	I ATC	V GTG	o CAG
N AAC	၁ 11GC	ე ეტე	T ACA	E G A G	II CAT	I ATY	V GTC	I ATC	s AGC
SAGC	T ACC	P	ස රි	E G A A	E GAG	F CCC	Y TAC	Y TAC	CTC
¥ TGG	H	N AAC	F TTT	К AAA	N AAC	A GCG	AAC	S	к ААА
N AAC	A GCT	K AAG	E GAA	E GAA	E GAG	N AAC	i: Tripi	I ATC	ာ တ
K AAA	I ATT	R CG G	L TYG	к AAA	E GAG	\mathbf{Y} TAT	L CTG	v GTC	P CCA
L CTG	F	M ATG	F	ာ တွ	D GAT	F	L CTC	I ATC	E GAA
EGAG	D GAC	CG CG	$\frac{L}{TTG}$	D GAT	ე ე	K AAA	L CTG	™ TGG	S TCA
Y TAC	× 59	L CTG	I ATC	E GAG	K AAG	C TGT	Y TAC	E GAG	M ATG
TACC	H	R AGA	T ACC	N AAC	R AGA	I ATC	၁	O CAG	L
L CTG	к AAA	ල දු	P CCC	E GAA	s TCA	K AAA	IIG	T. CTC	I ATC
L Circ	A GCC	M ATG	P CCC	K AAG	ე ე	ACA	Y TAC	s TCC	E GAG
K AAA	A GCA	w TGG	L CTA	s TCC	A GCT	ය ගියින	s TCA	_ا م	R CGA
MATG	V GTG	M ATG	L	T ACA	D GAT	I ATC	I ATA	™ TGG	I ATA
A GCT	A GCC	D GAT	I ATT	CA.	GCA GCA	P	T ACA	უ ე	K AAG
I ATC	L CTG	T ACC	၁	$\mathbf{Y} \\ \mathbf{TAT}$	N AAT	I ATC	Y TAC	D GAT	E GAG
C.A.G	K AAA	L CTG	M ATG	s TCG	GCA GCA	I	F	M ATG	L
E GAG	را 55	L CTG	I ATC	F	D GAT			ж С	& 90 90 90
D GAC	ာ ဦး	M ATG	V GTT	D GAT	T ACG		F	<pre> < GTG</pre>	CTG

FIG. 5D

840 2 52 0	860 2 580	880 2 640	900 2 700	920 2 760	940 2 820	960 2 880	980 2 940	1000 3000	1020 3060	1040 3120
F	M ATG	A GCC	P CCC	I ATT	I ATĆ	L CTG	s TCC	V GT C	၁ ၁	F
T. ACA	D GAC	ৃ CAA	M ATG	E GAA	ာ TGT	I ATC	I ATA	CC.P.	S AGC	L
s TCC	I ATC	R CGT	Y T'AC	M ATG	Р ССС	N AAC	၁ TCA	R AGG	L	K AAG
I ATY	M ATG	A GC	F TTC	A GCC	P CCI'	A GCC	к AA A	D GAC	R C GT	L TTG
A GCC	M ATG	V GTA	I ATC	Y TAC	L CTT	V GTC	۷ GTA	H C A T	M ATG	ე გ
STG	K AAG	ე ტე	N AAC	CIC	20 20 20 20	L CTG	E GAA	F	I ATT	R CGT
L CTC	ი წე	F	R CGA	D GAC	K AAG	L	F	T ACA	I ATC	D GAT
D GAT	I ATT	S AGT	A GCC	I ATA	ာ တွ	\mathbf{Y} TAT	F	M ATG	I ATC	CGG
T ACA	M ATG	M ATG	L CTG	CAG	E GAG	်ဥ	TACC	I ATT	Y TAC	E GAA
I ATC	M ATG	L	к ААА	D GAC	E GAG	A GCG	n AAT	L	I ATC	E GAG
N AAC	V GTG	<pre> </pre> <pre>GTG</pre>	W TGG	A GCA	D GAT	M ATG	N AAC	CAG	H	⊘ CAA
W TGG	S	V GTC	S	F	Y TAT	L	F	\mathbf{Y} \mathbf{TAT}	S AGC	D GAC
Y TAC	R AGA	L CTG	P CCC	v GTG	L CTA	₽ SG Þ	v GTG	R CGA	L TTA	၁ ၁
E	T ACG	M ATG	K AAG	E GAG	N AAC	P CCA	A GCT	C.A.G	I ATT	E
Ç CAG	A GCC	I ATC	E GAG	ු දිලි	E GAG	T ACT	I ATT	F	I ATC	R AGA
L CTT	M ATG	V GTC	E GAG	Y TAT	G GGT	L CTC	L CTG	K AAG	M ATG	K AAG
¥ M	A S	V GTG	Р СС А	I ATC	C TGT	w TGG	L	w TGG	P CCG	K AAA
v GTT	ට ශියි	F	H	M ATG	P CCT	A GCC	N AAC	v GTG	P CCA	R AGG
K AAA	I ATT	Y TAC	L CTG	¥ ₹	P CCT	ဗ ဗ္ဗ	v GTG	C.A.G	CCC	ာ ၂ ၉၄
I ATC	M ATG	L CTG	I	Y TAC	N AAT	P CC CC	L CTG	AAC	L CTG	က ည

FIG. 5E

1060 3180	1080 32 40	11.00 3300	1120 3360	1140 3420	1160 348 0	1180 3 540	1200 3600	1220 3660	1240 3 720
EAC CAC	S	M ATG	R AGA	29 29	S AGC	D GAT	I ATA	L CIT	L
E GAG	TACT	F	N AAC	⊲ SS	N AAT	E GAG	R C GT	CAC	D GAC
CAG	V GTC	T ACT	s TCT	C.A.G	IATC	F	F	CIT	D GAT
V GTG	R CG	E	L TTA	I ATC	s AGC	L TTA	S TCC	S AGT	V GTA
ာ 1 ઉC	IATIC	⊼ AGA	E GAA	.l CTG	s AG C	L TTA	င TGT	N AAC	A GCA
CAG	ო ე	E G AA	E	D GAC	CAA	E GAG	T ACC	ر CAG	L
E GAG	E GAG	N AAT	L	S	я С	E G AA	K AAA	C TGT	H
E GAG	DGAC	I ATC	Q CAG	⊼ AGG	L CTC	.G GGA	⊼ AAA	E GAA	S AGT
F	S	E GAA	A GCT	D GAC	L CIT	N AAC	R AGG	P	ဗ္ဗ
E	s TCC	E GAA	L CTT	I ATC	\mathbf{Y} TAT	F	V GTC	V GTC	D GAT
H CAT	s TCG	L TTG	R C GA	್ GGA	T ACG	H CAT	ე GGA	L CTA	P CCA
L CTG	Q CAG	⊼ AGG	L	A GCG	A GCA	Y TAT	T ACA	H	T ACC
R AGG	Q CAG	H ATG	D GAC	L. CTT	E GAG	R CGA	ა ე	T ACG	A GCA
K AAG	E GAG	s TCA	V GTT	N AAT	C TGT	Y TAT	P CCA	K AAA	s TCA
L CTA	D GAT	M ATG	T ACT	E GAA	E GAA	L TTG	s TCA	V GTG	T ACA
E GAG	EGAG	N AAT	CAG	L. CTT	S	S AGC '	T ACG	D GAC	S
E GAG	K AAG	E GAA	$^{ m L}$	A GCT	S	Y TA C	s TCC	K AA G	TACA
D GAC	E GAG	V G TT	s TCC	N AAT	A GCT	ပ္ပ	L CTC	E GAG	ე ეტ
s AGC	CG CG	R AGA	T ACT	v GTG	ж С	D GAT	S	E GAA	L CTG
L	F	E GAA	K AAA	MATG	S	A GCT	T ACA	K AAG	S TCA

FIG. 5F

1260 3780	1.280 3840	1300 3900	1320 3960	1340 4020	1360 408 0	1380 4140	1400 4200	1420 4260	1440 4320	1460 438 0	1480 4440	1497 4991
- m	m	с е	- m	. 7	T 4							2
E	^ GTG	N AAT	D GAT	R AGA	L	P	C. ₹	T ACT	PCCA	K AAG	T. ACA	ö
D GAT	D GAT	T ACA	ر درد درد	ට දි	CAA	I ATr	M ATG	I ATT	F TTC	ი გე	M ATG	(SEQ ID NOT TAGE TO THE
D GAT	T	T. ACG	F	± 993	CAG	D GAT	D GAT	T ACC	c GGA	CAG	ි GGA	•
E GAA (K AAA	E GAA	Y TAT	S TCC	D GAC	T ACA	A GCA	L CTA	$\frac{L}{TTG}$	I ATT	s TCT	် 16 C
K AAG	NAAT	V GTG	က ည	${ m Y}$	T ACG	S AGC	F	s TCC	T ACT	s TCC	v GTG	E GAA
s TCA	L TTA	T ACA	T ACA	v GTC	I ATC	H CAT	CAG	L	CAA	к ААА	I ATT	T ACT
I ATT	S AGT	L CTA	I ATT	F	S	S	E GAG	≍ CGC	D GAT	> GTG	v GTA	E GAA
ე ე	CCA CCA	C.A.G.	K AAA	s AGC	s AGT	R CG CG	AAA AAA	P CCT	P CCA	N AAT	L TTA	T ACA
I ATT	s TCC	T ACT	T ACC	R AGA	Y TAC	T ACG	CA.	I ATC	K AAG	R AGG	S AGC	s TCC
D GAT	I ATT	N AAC	E GAA	S	E GAG	I ATC	E GAG	⊼ C GA	v GTG	P CCT	s AGC	A GCT
P CCA	T ACT	⊘ C AA	E GAA	к AA G	V GTA	K AAG	À GCT	a ر آث	S	H CAT	۷ G TA	K AAA
ဝ ည်	E. GAA	V GTT	L CTG	M ATG	D GAT	CAA	CA C	I ATY	L CTG	၁ ဗိ	S AGT	E G A G
L TTA	E GAA	D GAT	P CCC	ACA T	CAG	۷ G r ۳	∨ G T G	₹	L TTA	H CAT	S	K AAA
AAA AAA	AAA	s TCA	Y TAT	AAA	N AAC	CAA	A GCA	GAA	N AAC	L TTA	α ပ္ပ	K AAG
s TCA	A. ₩	k AAA	S TCC	င TGT	V GTT	ပ ဍၟ	A GCT	A GCT	E G AA	s AGT	H C A T	V GTT
E GAG	ය <mark>T</mark>	D GAC	I ATT	A GCT	ე ე	\circ	E G AA	v GTC	M ATG	А да	ි දු	K AAG
E GAA	D GAC	CAG	T ACT	N AAT	G GGT (™	s TCG	H	ა ე	S TCA	S	K AAA
A GCT	T ACA	ი გე	ာ ညီ	I ATC	v GTC	E GAA	<pre> </pre> GTG	H CAC	n AAT	R AGG	R AGA	E GAA
AAC	CAG	H CAT	E G AA	T ACG	r CTG	T ACG	I ATT		R AGA	CH C	D GAC	E G AA
K AAG	R AGA	I ATA	I ATA	E Gaa	K AAG	T ACG	Y TAC	D GAT	D GAC	S	L TTA	GCA GCA

TIGITICITITAATITITITITITAACAGICAGAACCACTAATGGGTGTCATCTTGGCCATCCTAAACATCCAAT TTCCTAAAAACATTTTCCCT (SEQ ID NO: 6)

FIG. 5G

P. L. H. M. Am 'malle,

AATCTTGGATAGAGAAAACCTTTTGCAAACGGGAATGTATCTTTGTAATTCCTAGCACGAAAGACTCTAACAGGTGTTG CTGTGGCCAGTTCACCAACCAGCATATCCCCCCTCTGCCAAGTGCAACACCCAGCAAAAATGAAGAAAAGGAAAGCAA GTGGAGACTCAGCCTGAGAAATGGTCTGTTGCAAGCACCCCAGAGCTACCCAACAGATTCCTATGGAGTTCTTGAATT ACTCATTATAGGGNTCGAGCGGCCGCCGGGCAGGTTTGAGCTGTGCCCTCTCCATTCCACTGCTGTGGCAGGGTCAGA CCAGGGTGGCGGATATTCCAATAAAGCC

20	.10 120	60 180	80 2 40	300	120 360	140 420	160 480	180 540	200
K AAA	i. 1 T 'I	T. ACC	D GAT	ч К	O CAG	I ATC	L	v GTG	E G A A
	-		•		•	~	_		
v GTG	H AAU	m ATG	ე ე	ь ССТ	Y TAC	F 1TC	1. CTG	7 (31)	⇔ CAA
M ATG	o ₹ 5	A GCT	۷ GTA	1 ATT	> GTG	H CAC	R AGG	P CCC	CTG
L CTC	- C	A GCT	CAC	ට GGA	R AGA	TACC	R CGA	v GTG	Y TAC
H CAT	: 5 :5	к AA G	S AGC	I ATA	T ACA	Н	L CTG	ဗ္ဗ	E G AA
r Off	⊃ 5 5	I ATC	I ATC	A GCT	V GTA	s TCC	K AAG	O CAG	L TTG
7] CT	H CAT	L CTG	v GTT	င TGT	D GAT	AAC	v GTG	უ ე	v GTC
s TCA	> GTG	ဗ္ဗ	o GGT	V GTT	K AAG	AAC	E GAG	1. CTC	I ATC
D GAC	s TCF	AAA	TACA	29 ص	c GGA	L CTC	₽ CC	R AGA	s TCC
ď Ω	ı Ata	უ ე	S AGC	၁	V G IT	v GTG	ပ္	T ACA	V GTG
K AAG	ı, ITA	F	V GTC	R AGA	r. Cro	s TCT	Y TAT	N AAC	v GTG
T ACC	1. د بار ی	<pre></pre> <pre>GTC</pre>	ධ රු	S TCC	D GAC	L CFC	K AAG	I ATC	N AAC
DGAC	⊼ A A G	⇔ KS	ე ე	¥ AAG	E GAA	K AA G	ი ე	K AAG	P CCT
Y TAT	⁻ دور	K AAA	T ACC	s Tcc	₩ AA G	S AGT	L CTG	C.A.G	ე წ
S	1. CTC	L CTG	F	s TCC	n AAT	L CTA	T ACC	L CTC	ი გმ
∨ GTA	E GAÀ	K AAG	I ATC	H CAC	E GAG	P CCT	ပ္ ပ္ပ	s TCC	E GAG
R CGT	L. CTG	P	™ TGG	D GAC	> GTG	A.A.C.	n AAT	I ATC	> Gro
IATC	SAG.	⇔ CAS	& SCC	AAA	I ATC	s TCC	D GAC	H CAC	> STG
Y TAT	™ TGG	M ATG	ე ე	L TTG	ပ္ ဗ္ဟ	M ATG	GCT GCT	K AAG	CTC
M ATG	D GAT	E GAG	T ACC	A GCC	™ TGG	T ACC	r CTC	E GAA	G GGT

FIG. 6A

resonal cast

220 660	240 720	260 780	280 840	300 900	320 960	340 1020	360 1 080	380 1 140	400
						٠.			
S	CTT	GCA GCA	E GAG	S TCT	C.A.G.	s AGC	ж А д А	≃ 99 90	>
CTG	Q CAG	F	STCT	V GTA	s AGC	D GAC	ා දි	P CCC	il.
I ATC	E GAG	ا د ا	CGT	N AAC	≍ C GA	T ACG	R AGA	D GAC	4.
D GAC	R AGG	ر CAG	M ATG	T ACA	A GCA	P CCG	၁ ၇	T ACT	Ω
s TCG	L CTC	II CAT	R AGA	G GGA	I ATA	P CCC	ු ව ගිරීම	E GAA	1
A GCC	s TCC	a TCA	F	K AAA	D GAC	GCA GCA	K AAG	E G AA	Z
R CGT	E GAG	CAA	V GTG	L	> GTG	L CTG	T ACC	E GAG	Ø
ය දියි	N AAT	4 S	T ACT	L CATG	≃ ႘	AGC . S	T. ACC	> STG	ø
s AGC	I ATA	K AAG	v GTC	A GCC	N AAC	G GGA	و ورد	E GAA	ഥ
ပ ဗွ	I ATA	N AAT	L CTC	T ACT	™ TGG	L CTG	M ATG	E GAG	ы
D GAT	റ ദേ	$\Upsilon \\ \mathbf{TAT}$	E G AA	L TTA	A GCT	P	P CCC	к ААА	A
c TGT	ი გ	N AA T	K AAA	I ATT	7 CT	T ACG	P CCA	> FP	z
I	E G AA	F	K AAG	GCA GCA	G A	w TGG	K AAG	ж даа	>
> 5TG	E GAA	T. ACA	K AAG	M ATG	L TTG	H CAC	K AAG	ე ე	Z
v GTG	ာ TGT	⊼ AAA	M ATG	E GAG	s AGC	P CC CC	E GAG	AAA	z
P CCT	Y TAC	C.A.G	ာ ာ	I ATC	L CTG	ი გ	к AA G	AAG	Ļ
I ATC	K AAG	I ATT	E GAG	D GAC	CA C	F	E GAG	K AAG	L
۳	H	'r ACC	M ATG	O. CAG	D GAT	V GTC	T ACG	ပ တွ	ជា
r CCT	A GCG	V G T T		CAG	ය ව්	F	A GCC	AA A	н
E GAG	F	L CTA	I ATT	၁ ၁၅	A GCT	I ATC	ж ААА	ი გ	ᄶ

FIG. 6B

nescapera nesyna

	(l																		
620 186 0	H	к AA G	Y TAT	s TCC	CAG	D GAC	L TTA	L	E GAG	1. 1716	A GCT	L CTT	CAG	၁ ၆	F	GAC	AAA	s TCC	N AAT	A A
600 1800	D GAT	L TTG	D GAC	Q CAG	S TCC	I ATC	D GAC	D GAT	v GTG	L CTG	D GAT	S AGT	E GAG	s TCC	S	E GAG	CAC	A GCC	MATG	A GCC
580 1 740	K AAG	Y TAC	L CTC	K AA G	ာ ာ	A GCC	v GTG	L CTG	ور ک	K AAG	A GCC	M ATG	S	E GAG	E GAA	ე ე	R CGA	C CAG	∡ TGG	1 E
560 1680	F	> GTG	A	M ATG	к ААА	CAG	۳ کوئ	™ AAA	M ATG	L CTG	> GTG	A GCA	™ TGG	V GTG	M ATG	L CTG	E GAG	E E	TTC	ა ეეე
540 1 620	Y	CAG	F	R CGG	S AGT	V GTG	A GCC	P CCT	D G A C	D GAC	> GIG	D GAT	I ATT	D GAC	I	E GAG	E GAA	E GAG	K AAG	AAA
; 520 1560	к AA G	AAA	к А AA	A.A.A.	AAA	K AAG	ე ე	¥¥ Y	A GCT	P CCA	P CCT	E GAG	D GAT	D GAT	E GAA	M ATG	၁ ဗ်	L CTG	L	₹ A
500 150 0	L	A GCT	K AAA	P CCT	AGG	K AAG	P	ი გვ	F	L TTG	N AAC	N AA C	Y TAC	Ciri	T ACC	ж С СС	F	AAC	AAA	۳ 260
480 1 44 0	TACT	Y TPAC	A.A.C.	ာ ၂ ရင်	ထ ည	Y TAC	A GCC	G GGA	ი გგ	M ATG	1. CTC	Y TAC	E GAG	1 CJ	v GTG	L CTC	ე ე	I ATC	D GAC	I ATA
460 1 380	L	S	I ATC	H CAC	Y TAC	D GAT	P	P (L CTT	N AAC	s AGC	K AAG	K AAA	> GTG	D GAT	R AGG	V GTG	L CTG	CTG	H
440 1320	L CTT	ACA -:	N AAC	ت کی کی	P CCA	ා ලු	L CTG	R AGA	T ACA	N AAC	${\bf \gamma} \\ {\bf TAT}$	L	E GAG	E GAG	CTS	⊼ AGG	P CCG	I ATT	T ACC	1. CTC
420 1 260	F	Н	CAA	M ATG	N AAC	v GTG	G GGA	N AAC	E GAA	I ATT	r CTG	L CTC	K AAG	> STS	F	D GAC	v GTC	R CGT	D GAT	L
1200	GTC	TTA	GCT	GAT	CTA	ATG	900	S.	GAG	TTG	GCT	AAT	GTG	766	AAC	CTG	CTG	GAG	ATA	AAG

640 1920	660 1980	680 2 040	700	720 2 160	740 2220	760 2 280	780 2 340	800 2 400	820 2 460
		.,	.,	•	,,				
T ACC	⊘ CAG	K AAG	D GAT	ii AAT	к AAA	⊼ AA G	L CTG	S AGC	ь Ада
S	S AGC	L CTG	Y TAT	E G AA	к ААА	V GTC	I ATC	V GTG	્ CAG
AAC	ာ ညီ	ာ ဗွ	T ACA	E G A G	II CAT	l ATY	V GTC	I ATC	AGC
s AGC	T ACC	မှ ၁	ය රු	E G AA	E GAG	ال دود	Y TAC	Y TAC	L
™ TGG	H CAC	AAC	F	AAA	N AAC	A GCG	AAC	s TCC	ь Маа
N AAC	A GCT	K AAG	E GAA	E GAA	E GAG	AAC	F	I ATC	၁ ဗွ
K AAA	I ATT	R CGG	L TYIG	AAA	E GAG	\mathbf{Y} \mathbf{TAT}	L. CTG	V GTC	P CCA
r CTC	F	M ATG	F	ာ တွ	D GAT	F	L CTG	I ATC	E GAA
E GAG	D GAC	∞ GG	$^{ m L}_{ m TTG}$	D GAT	ე ე	K AAA	L CTG	₹ ZG	S TCA
Y TAC	ж С	L	I ATC	E G A G	K AAG	ာ TGT	Y TAC	E GAG	M ATG
T ACC	H CAC	R AGA	T ACC	N AA C	R AGA	I ATC	ာ	CAG	L CTC
L CTG	AAA	G GGA	Р ССС	E GAA	S	AAA	L. TTTG	L CTC	1 ATC
CIC	A GCC	M ATG	P CCC	K AAG	ပ ဗွ	ACA	Y TAC	s TCC	E GAG
X AAA	₽ P	™ TGG	L C TA	s TCC	GCT	ာ GG	s TCA	P	R CGA
M ATG	V GTG	M ATG	L	ACA	D GAT	I ATC	I ATA	™ TGG	I ATA
A GCT	& GC	D GAT	I ATT	o ₹	₽ SC	P CCC	ACA	ပ္ပ	K AAG
I ATC	L	T ACC	_ට වූ	Y TAT	N AAT	I ATC	Y TA C	D GAT	E GAG
O. S.	K AAA	L CTG	M ATG	s TCG	gg a	I ATT	F	M ATG	L TTA
E GAG	1 CF C	L CTG	I ATC	F	DGAT	R AGA	w TGG	۳ کی 200	& 200 €00
D GAC	ာ အင်	M ATG	V GTT	D GAT	T. ACG	⇔ ₹	F	> Green	L CTG

FIG. 6D

840 2520	860 2580	880 2 640	900 2 700	920 2 760	940 2 820	960 2880	980 2 940	1000 3000	1020 3060	1040 3120
										, , , , ,
F	I ATC	K AAG	<pre></pre>	P CCA	I ATC	ت TGT	W TGG	r CTC	™ M	ط 20
T ACA	> GTG	N AAC	F. TYPT	II CAT	M ATG	P CCT	A GCC	N AAC	> CTG	P CCA
S TCC	™ CGC	V GTC	Y TAC	L. CTG	™ TGG	P: CCT	၁ ဗွ	V STG	C.A.G.	ال درد (
I ATT	ာ ၁၅	ි දිරෑ	L. CTG	I ATT	Υ TAC	N AAT	ر درد ا	L CTG	N AAC	L CTG (
A GCC	$^{ m Y}$	F	M ATG	A GCC	P CCC	I ATT	I ATC	L	S	V GTC (
V GTG	ာ ဗွ	I ATC	L) GAC	C A A	N ATG	E GAA	C. TGT	I ATC	I ATA	G A
L CTO	M ATG	D GAC	1 ATC	R CGT	$^{ m Y}$	M ATG	occ CCC	N AAC	S	R AGG
D GAT	Y	L CTC	M ATG	₽ GCC	F	A GCC	P	A GCC	K AAA	D GAC
T ACA	۳ کی ک	v GTC	M ATG	V GTA	I ATC	Y TAC	LCIT	V GTC	۷ GTA	H
I ATC	C.A.C.	R CGT	K AAG	ი გვ	N AAC	L	۳. 20	L CTG	E GAA	F ITT
NAAC	N AAC	I ATC	ල දිපු	F	R CGA	D. GAC	K AAG	L CTA	F TYPT	T ACA
™ TGG	C.A.G.	Y TAC	I ATT	S AGT	A GCC	I ATA	၁ ည	Y TAT	F	M ATG
Y TAC	L CTA	w TGG	M ATG	M ATG	L. CTG	Ç.A.G	E GAG	ပ ၂၀	T ACT	I
E GAG	≃ ဗ္ဗ	F	M ATG	CTC	к АА А	D GAC	E GAG	y GCG	N AAT	r CTG
C AS	L CTT	I ATC	v GTG	V GTG	™ TGG	₽ S	D GAT	M ATG	N AAC	CAG
CTT	I ATT	I ATC	Y TAC	V GTC	S	F	Y TAT	r CTC	F	Y
¥ TGG	4 2 9	D GAT	Р СС	L CTG	P CCC	v GTG	L CTA	SC A	v GTG	CG. R
V GPT	ි දුව	v GIG	ე ე	M ATG	K AAG	E GAG	N AAC	P CCA	A GCT	C.A.G.
K AAA	I ATT	റ TGT	L CTG	I ATC	E GAG	ට දිලි	E GAG	T. ACT	I ATT	F TTC (
IATC	M ATG	Y TAC	\mathbf{Y} \mathbf{TAT}	SFC <	E GAG	\mathbf{Y} \mathbf{TAT}	G GGT	CIC	L CTG	AAG 3

FIG. 6E

1060 3180	1080 3240	1100 3300	1120 3360	1140 3420	1160 3480	1180 3540	1200 3600	1220 3660	1240 3720
A A A	E GAG	K AAG	E GAA	L CTG	۸ GCT	S	Y TAC	S	К AA G
R AGG	GAC	E GAG	V GTT	S TCC	N AAT	A GCT	ာဗ္ဗ	L CTC	E GAG
ာ ညီ	S	ж С С С	R AGA	T ACT	V GTG	R C G G	D GAT	S TCT	E G AA
ස උදුර	L CTT	F	E GAA	™ AAA	N ATG	S	A GCT	T ACA	K AAG
၁ ၁	F TTC	H	S	M ATG	× AGA	ж С	် AG C	D GAT	I ATA
s AGC	L CTC	E GAG	T ACT	F TYP	N AAC	A SS	N AAT	E GAG	R CGT
CH C	к AA G	CAG	V GTC	T ACT	STCT	O CAG	I ATC	F	F
R CGT	r TTG	> GTG	ж С С С	E GAA	L TTA	I ATC	S AGC	L TTA	S
M ATG	o GGA	ာ ညီ	I ATC	R AGA	E GAA	L CTG	s AGC	L TTA	င TGT
I ATT	R CGT	CAG	75 CG CG	GAA	E G AA	D GAC	Ċ.	E GAG	T ACC
I ATC	D GAT	E GAG	E GAG	N AAT	l. CTA	S TCT	≅ CGG	E GAA	к ААА
I ATC	۲ کو	E GAG	D GAC	I ATC	ر CA G	R AGG	L CTC	c GG	к ААА
Y TAC	E GAA	F	S AGC	E	A GCT	D GAC	L CTT	N AAC	R AGG
I ATC	E GAG	E GAG	S	E GAA	L CIT	I ATC	Y TAT	F	v GTC
H	₽ CAA	H CAT	S TCG	L TTG	R CGA	ල ලල්	T ACG	H	ු ශීල්ශි
s AGC	D GAC	تا 20	ი გე	R AGG	L. CIT	& GCG	₽ GCA	Y TAT	T ACA
TTA	უ ე	R AGG	CAG	MATG	D GAC	L CIT	E GAG	CGA	ე ეტე
I	E GAA	K AAG	E GAG	s TCA	<	N AAT	ာ ၂ ၆၂	${\rm Y} \\ {\rm TAT}$	P CCA
ATC	R AGA	CTA	D GAT (M ATG	T ACT	GAA	GAA	I IG	S TCA
M ATG	AAG A	E GAG (E GAG (N AAT	CAG	CTT	S	s AGC	T ACG

FIG. 6F

1260 3780	1280 3840	1300 3900	1320 3960	1340 4020	1360 408 0	1380 4140	1400 4200	1420 4260	1440 4320
T ACA	E G AA	D GAC	C.A.G	'r ACT	N AAT	G GGT	ĭĞG	2	H
၁ ၁၅	A GCT	T ACA	ე წე	ე გ	I ATC	v GTC	E GAA	> G T G	CAC
L CTG	N AAC	Q CAG	II CAT	E G AA	T ACG	L CTG	T. ACG	ATT	E G AA
S TCA	K AAG	R AGA	I ATA	I ATA	E GAA	K AAG	T. ACG	Y TAC	D GAT
CTT	L TTA	E GAA	> Great	N AAT	D GAT	R AGA	L TTG	ت روز	CAA
H	D GAC	D GAT	D GAT	ACA	P CCC	о ССА	CAA	I ATT	M ATG
L CTT	D GAT	D GAT	T ACA	ACG	F	CGG	CAG	D GAT	D GAT
S AGT	V GTA	E GAA	⊼ AAA	E GAA	Y TAT	s TCC	D GAC	T. ACA	4 S
N	GCA GCA	™ AA G	N AAT	V GTG	۳ کو	\mathbf{Y} TAT	T ACG	s AGC	F
CAG	L	S TCA	L TTA	T ACA	T. ACA	v GTC	I ATC	II C AT	O CAG
C TGT	II CAC	I ATT	S AGT	L CTA	I ATT	F	S	S TCT	E GAG
E GAA	S AGT	ე ე	P CCA	C.A.G.	AAA	SAGC	SAGT	≃ හි	K AAA
PCCA	ဗ္ဗ	I ATT	S	T ACT	ACC	R AGA	Y	T. ACG	CAA
v GTC	D GAT	D GAT	I ATT	N AAC	GAA	s TCC	E GAG	I ATC	E GAG
CTA	P CCA	P CCA	T ACT	CAA	E GAA	K AAG	V GTA	к AA G	A GCT
H CAC	T ACC	G GGT	E GAA	V GTT	L CTG	M ATG	D GAT	⊃ &	CAA
T ACG	A GCA	L TTA	E GAA	D GAT	P	T ACA	CAG	v G T T	v GTG
K AAA	S	⊼ AAA	¥¥¥	s Ž	$\mathbf{Y}\\\mathbf{TAT}$	K AAA	AAC	્ર ફ્ર	A GCA
v GTG	ACA	S	AAA	™ AAA	s TCC	င ်	V GTT	ပ ်	A GCT
GAC	S	E GAG	S	D GAC	I ATT	A GCT	ე ეტე	o ₹	E GAA

FIG. 6G

1480 **4440** 1500 **4500** 1520 4560 1533 **4599** 4380 s TCA s TCT 3GA CAT GCC AGT AGT GTA AGC AGC TTA GTA ATT GTG TCT GGA ATG ACA GCA GAA AAA STC GCT GAA GCA ATT CCT CGA ATC CCT CGC TTG TCC CTA ACC ATT ACT GAC AGA AAT GGG TTTTTTAACAGTCAGAAACCCACTAATGGGTGTCATCTTGGCCCATCCTAAACACATMTCCAATTTCCTAAAAACATTT ပ ¥ M E N L L S V K P D Q T L G F P S L R ATG GAA AAC TTA CTG TCT GTG AAG CCA GAT CAA ACT TTG GGA TTC CCA TCT CTC AGG G H P R N V K S I Q G K L D R GGA CAT CCT AGG AAT GTG AAA TCC ATT CAG GGA AAG TTA GAC AGA ш ш (SEQ ID NO: 9) M T A G S > H > ı ഗ ഗ > L H TTA CAT വ Ø K S AAA AGT

FIG. 6H

TCCCT (SEQ ID NO: 8)